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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/610,959	07/01/2003	Chin-Long Chiang	7257/69794	4155

7590 12/28/2005

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EXAMINER

ONEILL, KARIE AMBER

ART UNIT	PAPER NUMBER
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1746

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/610,959

Applicant(s)

CHIANG, CHIN-LONG

Examiner

Karie O'Neill

Art Unit

1746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 01 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Li (GB 2360396 A).

With respect to Claim 1, Li discloses in Figure 5, a battery adapter (1) comprising: a hollow body (11 upper casing) having a conducting pole (5 positive pole) provided at a closed end thereof, and a first coupling part formed at an open end thereof; in Figure 8, a bottom cover (12 lower casing) having a second coupling part formed at an upper end and engaged with the first coupling part, a seat (121 annular wall) formed in the bottom cover (12 lower casing), a hole (222) defined through the seat (121 annular wall); and a conducting member (122 negative plate), with a U-like cross section, and exposed from the bottom end of the bottom cover.

With respect to Claim 3, Li discloses in Figure 8, a resilient member (123 conductive helical spring) provided in the conducting member (122 negative plate).

With respect to Claims 5 and 7, Li discloses in Figure 1, the battery adapter, according to Claim 1, wherein the conducting member (122 negative plate) has a plurality of pointed protrusions (221 plurality of resilient plates) formed at an outer periphery thereof and positioned in the seat (121 annular wall).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 6, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li (GB 2360396 A) in view of Trattner (US 4397920).

Li discloses the battery adapter of Claim 1 above, but does not disclose expressly a ring provided in the conducting member, the ring having a resilient leaf extending therefrom towards the center of the ring, a lug formed on a free end of the

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resilient leaf, and an inner wall of the body having a plurality of ribs formed thereon to define a space for receiving a battery.

Trattner discloses in Figures 4 and 5, a flat disk (90) having an upraised curved contact element (92), which passes through the gap or slot formed from the flat disk and makes contact with the negative terminal of the battery. A lug formed on a free end of the leaf or curved contact element would be an inherent part of the terminal contact. Trattner also discloses in column 5 lines 19-24, three angularly arranged ribs (102, 104, 106) along the inner walls of the adapter, and a space for receiving battery, which is formed by the ribs.

Li and Trattner are analogous art because they are from the same field of endeavor batteries. At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the features of Trattner to the battery adapter of Li for the purpose of improving electrical contact with the battery and creating a stable and secure battery holding area within the adapter.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Li (GB 2360396 A) in view of Matthews (US 5629105).

Li discloses the battery adapter of Claim 1 above, but does not expressly disclose the first coupling part of the body having an internal thread, and the second coupling part of the bottom part having an external thread.

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Matthews discloses in Figure 1 and column 5 lines 48 and 58, a barrel (58) including external threads and a cap (32) having internal threads.

Li and Matthews are analogous art because they are from the same field of endeavor battery containers. At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the threaded features of Matthews to the battery adapter of Li for the purpose of providing a firm seal between the body and bottom parts of the adapter.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Li.(GB 2360396 A) in view of Jobin et al. (US 5301456).

Li discloses the battery adapter of Claim 1 above, but does not expressly disclose the first coupling part of the body having a plurality of blocks and the second coupling part of the bottom cover having a plurality of L-like slots.

Jobin et al. discloses in Figures 1 and 2 and column 3 lines 20-27, a casing (20) with radially directed pins (30) on the side walls, and a cap member (22) containing inverted L-shaped slots (28) cooperating with pins on the casing side walls.

Li and Jobin et al. are analogous art because they are from the same field of endeavor containers. At the time of the invention it would have been obvious to a person of ordinary skill in the art to combine the features of Jobin et al. with the battery adapter of Li for the purpose of creating a bayonet-type locking system between the casing and cap of the container.

Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li (GB 2360396 A).

Li discloses the battery adapter of Claim 1 above, but does not expressly disclose a resilient member being provided on a lower end of the positive pole. It would have been obvious to one having ordinary skill in the art at the time the invention was made to put a resilient member at the lower end of the positive pole, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karie O'Neill whose telephone number is (571) 272-8614. The examiner can normally be reached on Monday through Friday from 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KAO


JONATHAN CREPEAU
PRIMARY EXAMINER